

=> file reg; d que 117

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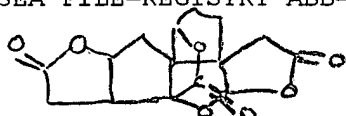
STRUCTURE FILE UPDATES: 18 OCT 2000 HIGHEST RN 297131-67-0
DICTIONARY FILE UPDATES: 18 OCT 2000 HIGHEST RN 297131-67-0

TSCA INFORMATION NOW CURRENT THROUGH July 8, 2000

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conducting SmartSELECT searches.

Structure search limits have been increased. See HELP SLIMIT
for details.

[L17 348 SEA FILE=REGISTRY ABB=ON PLU=ON 5526.1.1/RID? - *all compounds containing this ring structure*



=> fil caplus

[FILE 'CAPLUS' ENTERED AT 11:17:46 ON 19 OCT 2000
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FILE COVERS 1967 - 19 Oct 2000 VOL 133 ISS 17
FILE LAST UPDATED: 18 Oct 2000 (20001018/ED)

This file contains CAS Registry Numbers for easy and accurate
substance identification.

This file supports REGISTRY for direct browsing and searching of
all substance data from the REGISTRY file. Enter HELP FIRST for
more information.

Now you can extend your author, patent assignee, patent information,
and title searches back to 1907. The records from 1907-1966 now have
this searchable data in CAOLD. You now have electronic access to all
of CA: 1907 to 1966 in CAOLD and 1967 to the present in CAPLUS on STN.

=> d que 134

L17 348 SEA FILE=REGISTRY ABB=ON PLU=ON 5526.1.1/RID
L18 467 SEA FILE=CAPLUS ABB=ON PLU=ON L17
L19 430393 SEA FILE=CAPLUS ABB=ON PLU=ON ?ALCOHOL?
L21 45678 SEA FILE=CAPLUS ABB=ON PLU=ON ?TOBACCO?
L22 3850 SEA FILE=CAPLUS ABB=ON PLU=ON ?ADDICT?
L23 62717 SEA FILE=CAPLUS ABB=ON PLU=ON ?CIGAR? OR ?NICOTIN?
L24 12855 SEA FILE=CAPLUS ABB=ON PLU=ON ?COCAIN? OR ?HEROIN?
L25 26754 SEA FILE=CAPLUS ABB=ON PLU=ON ?AMPHETAMIN? OR ?BARBITURAT?
L34 12 SEA FILE=CAPLUS ABB=ON PLU=ON L18 AND (L19 OR (L21 OR L22 OR
L23 OR L24 OR L25))

Searched by Barb O'Bryen & Toby Port

=> [d ibib abs hitstr 134 1-127 file caold; d que 137

L34 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2000 ACS

ACCESSION NUMBER: 2000:341808 CAPLUS

DOCUMENT NUMBER: 133:150796

TITLE: 1H-NMR analysis of intra- and intermolecular H-bonds of **alcohols** in DMSO: chemical shift of hydroxy groups and aspects of conformational analysis of selected monosaccharides, inositols, and ginkgolides

AUTHOR(S): Bernet, Bruno; Vasella, Andrea

CORPORATE SOURCE: Laboratorium fur Organische Chemie, ETH-Zentrum, Zurich, CH-8092, Switz.

SOURCE: Helv. Chim. Acta (2000), 83(5), 995-1021

CODEN: HCACAV; ISSN: 0018-019X

PUBLISHER: Verlag Helvetica Chimica Acta

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The interpretation of 1H-NMR chem. shifts, coupling consts., and coeffs. of temp. dependence ($\delta(\text{OH})$, $J(\text{H},\text{OH})$, and $\Delta\delta(\text{OH})/\Delta T$ values) evidences that, in (D6)DMSO soln., the signal of an OH group involved as donor in an intramol. H-bond to a hydroxy or alkoxy group is shifted upfield, whereas the signal of an OH group acting as acceptor of an intramol. H-bond and as donor in an intermol. H-bond to (D6)DMSO is shifted downfield. The relative strength of the intramol. H-bond depends on co-operativity and on the acidity of OH groups. The acidity of OH groups is enhanced when they are in an antiparallel orientation to a C-O bond. A comparison of the 1H-NMR spectra of **alcs.** in CDCl3 and (D6)DMSO allows discrimination between weak and strong intramol. H-bonds. Consideration of IR spectra (CHCl3 or CH2Cl2) shows that the rule according to which the downfield shift of $\delta(\text{OH})$ for H-bonded **alcs.** in CDCl3 parallels the strength of the H-bond is valid only for **alcs.** forming strong intramol. H-bonds. H-Bonding of hexopyranoses, hexulopyranoses, alkyl hexopyranosides, alkyl 4,6-O-benzylidenehexopyranosides, levoglucosans, and inositols in (D6)DMSO was investigated.

IT 15291-75-5, Ginkgolide A 15291-76-6, Ginkgolide C

15291-77-7, Ginkgolide B 123600-74-8 130523-06-7

145497-37-6 153355-66-9 201736-39-2

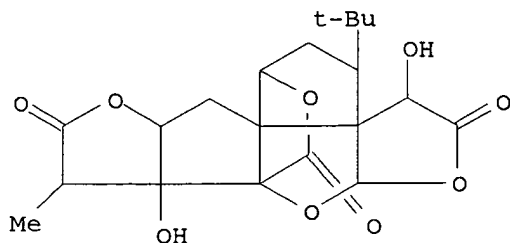
287109-66-4 287109-68-6

RL: PRP (Properties)

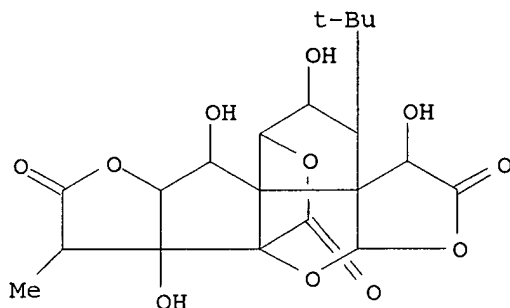
(1H-NMR anal. of intra- and intermol. H-bonds of **alcs.** in DMSO: chem. shift of hydroxy groups and aspects of conformational anal. of selected monosaccharides, inositols, and ginkgolides)

RN 15291-75-5 CAPLUS

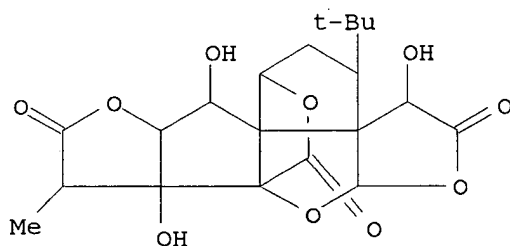
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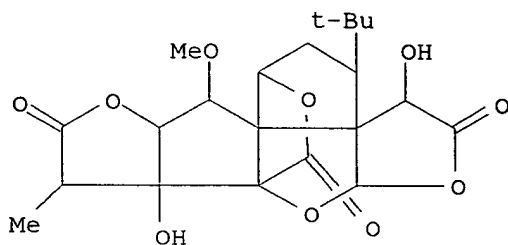
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RN 15291-77-7 CAPLUS
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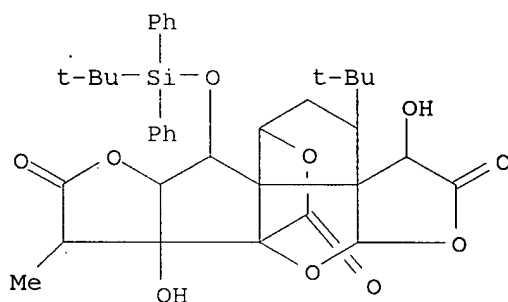


RN 123600-74-8 CAPLUS
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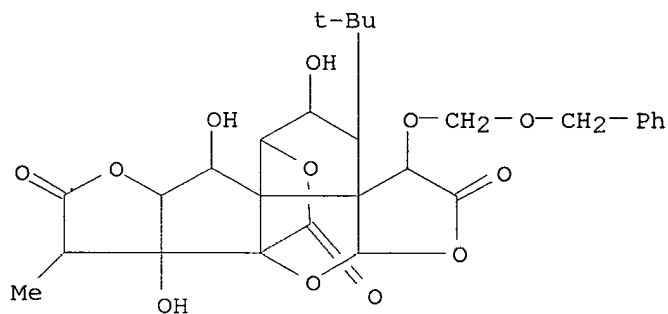
RN 130523-06-7 CAPLUS

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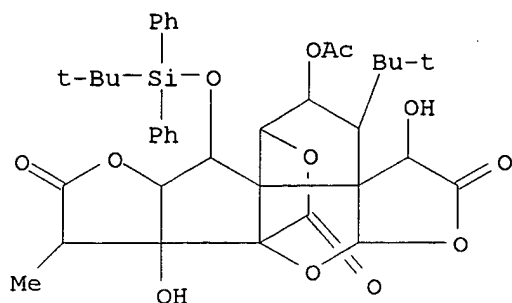
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RN 153355-66-9 CAPLUS

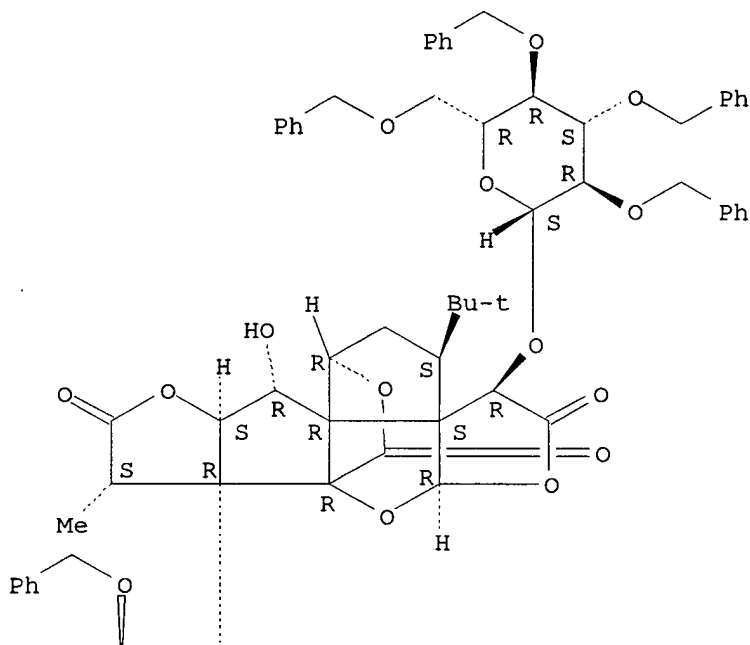
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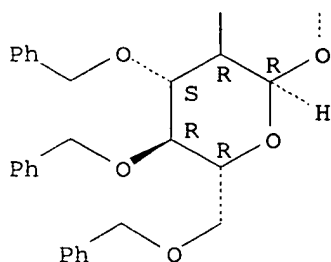
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 3-(1,1-dimethylethyl)hexahydro-11-hydroxy-8-methyl-7b-[[2,3,4,6-tetrakis-O-(phenylmethyl)-.alpha.-D-glucopyranosyl]oxy]-4-[[2,3,4,6-tetrakis-O-(phenylmethyl)-.beta.-D-glucopyranosyl]oxy]-,
 (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11R,11aR)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

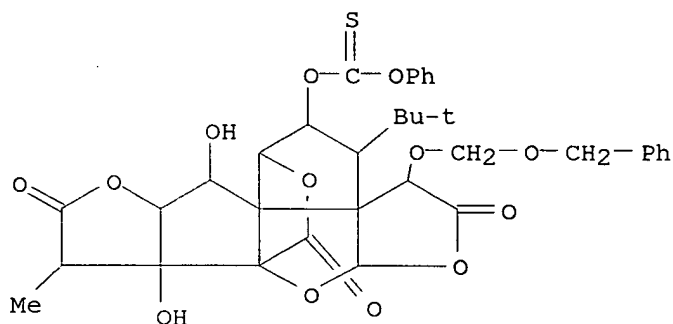
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PAGE 2-A



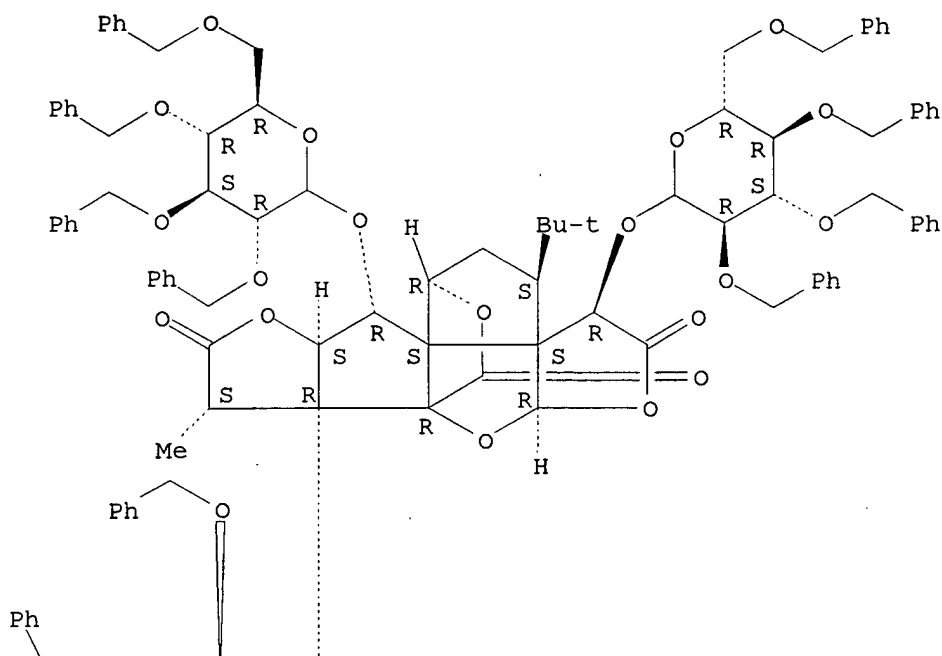
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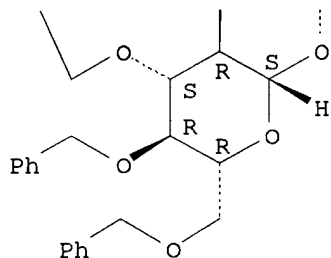
RN 287109-68-6 CAPLUS
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Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



REFERENCE COUNT:

75

REFERENCE(S):

- (1) Aaron, H; Top Stereochem 1979, V11, P1 CAPLUS
- (2) Abdel-Malik, M; Carbohydr Res 1987, V159, P11 CAPLUS
- (3) Adams, B; Magn Reson Chem 1994, V32, P225 CAPLUS
- (4) Alzeer, J; Helv Chim Acta 1995, V78, P242 CAPLUS
- (5) Angyal, S; J Chem Soc Perkin Trans 2 1996, P1485 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L34 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2000 ACS

ACCESSION NUMBER: 2000:265919 CAPLUS

DOCUMENT NUMBER: 132:319735

TITLE: Chemical constituents of Ginkgo biloba

AUTHOR(S): Hasler, Andreas

CORPORATE SOURCE: Zeller Ltd., Herbal Remedies, Romanshorn, CH-8590, Switz.

SOURCE: Med. Aromat. Plants--Ind. Profiles (2000), 12(Ginkgo Biloba), 109-142

Searched by Barb O'Bryen & Toby Port

CODEN: MAPPFL; ISSN: 1027-4502
 PUBLISHER: Harwood Academic Publishers
 DOCUMENT TYPE: Journal; General Review
 LANGUAGE: English

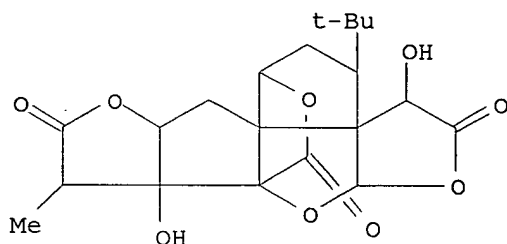
AB A review is given with many refs. on *G. biloba* constituents including terpenes, flavonoids, org. acids, polyacetate derived compds., carbohydrates, misc. org. compds., and inorg. compds.

IT 15291-75-5, Ginkgolide A 15291-76-6, Ginkgolide C 15291-77-7, Ginkgolide B 15291-78-8, Ginkgolide M 107438-79-9, Ginkgolide J

RL: BOC (Biological occurrence); BIOL (Biological study); OCCU (Occurrence)
 (chem. constituents of *Ginkgo biloba*)

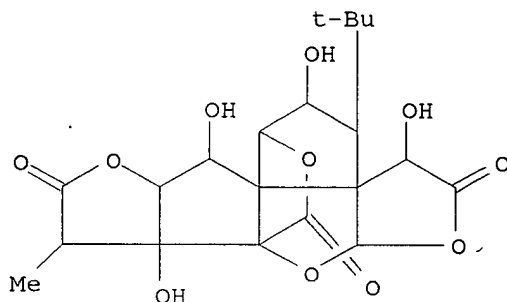
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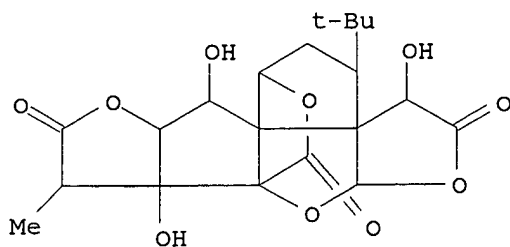
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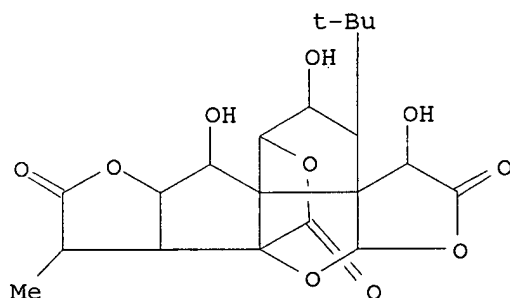


RN 15291-77-7 CAPLUS

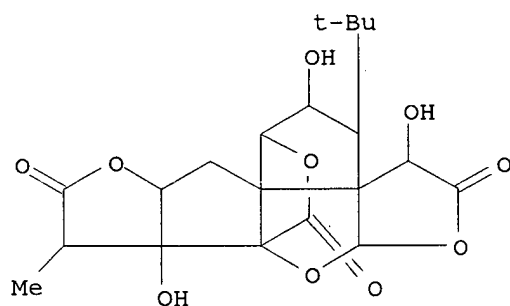
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RN 15291-78-8 CAPLUS
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RN 107438-79-9 CAPLUS
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REFERENCE COUNT:
 REFERENCE(S):

- 161
 (1) Adawadkar, P; Fitoterapia 1981, V52, P129 CAPLUS
 (8) Chang, S; Saengyak Hakhoechi 1993, V24, P54 CAPLUS
 (9) Choukchou-Braham, N; Tetrahedron Lett 1994, V35, P3949 CAPLUS
 (10) Chung, A; Korean J Food Sci Technol 1978, V10, P119 CAPLUS
 (11) Chung, B; Daehan Hwahak Hwojee 1982, V26, P95 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT
 Searched by Barb O'Bryen & Toby Port

L34 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2000 ACS

ACCESSION NUMBER: 2000:15604 CAPLUS

DOCUMENT NUMBER: 132:35038

TITLE: Water-soluble native vegetable dried extract, in particular Ginkgo biloba extract with high content of terpenoids and flavone glycosides.

INVENTOR(S): Oschmann, Rainer; Grethlein, Eckardt

PATENT ASSIGNEE(S): Willmar Schwabe G.m.b.H. and Co., Germany

SOURCE: Ger. Offen., 8 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19829516	A1	20000105	DE 1998-19829516	19980702
WO 2000001397	A1	20000113	WO 1999-DE1812	19990619
W: AU, CA, JP, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9954069	A1	20000124	AU 1999-54069	19990619
PRIORITY APPLN. INFO.:				
			DE 1998-19829516	19980702
			WO 1999-DE1812	19990619

AB A water-sol. native vegetable dried ext. from plant parts, esp. from Ginkgo biloba leaves, contains flavone glycosides, terpene lactones and other components and is prepd. from an ultrafiltered alc.-water ext. preferably. The ext. is used in dietetic foods, drugs and cosmetics.

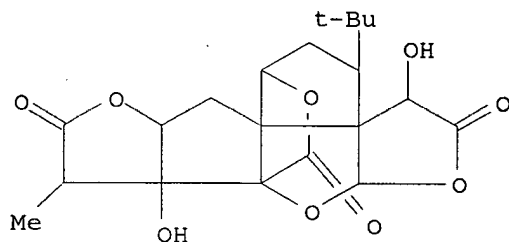
IT 15291-75-5P, Ginkgolide A 15291-76-6P, Ginkgolide C 15291-77-7P, Ginkgolide B

RL: BUU (Biological use, unclassified); FFD (Food or feed use); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(water-sol. native vegetable dried ext., in particular Ginkgo biloba ext. with high content of terpenoids and flavone glycosides.)

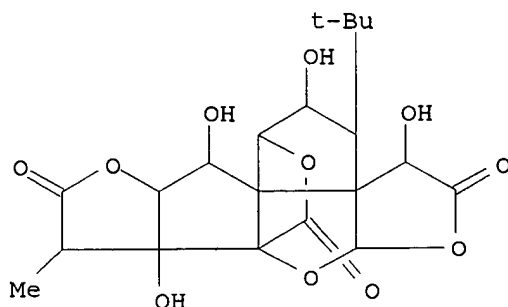
RN 15291-75-5 CAPLUS

CN 9H-1,7a-(Epoxy-methano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-4,7b-dihydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11aS)-(9CI) (CA INDEX NAME)

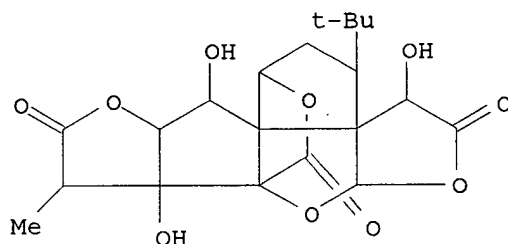


RN 15291-76-6 CAPLUS

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RN 15291-77-7 CAPLUS
 CN 9H-1,7a-(Epoxyethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-4,7b,11-trihydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11S,11aR)-(9CI) (CA INDEX NAME)



REFERENCE COUNT: 1
 REFERENCE(S): (1) Anon; DE 19829516 A1 CAPLUS

L34 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2000 ACS
 ACCESSION NUMBER: 2000:12986 CAPLUS
 DOCUMENT NUMBER: 132:33379
 TITLE: Health-care **cigarette** from ginkgo leaf
 INVENTOR(S): Zou, Qiang; Zou, Yong
 PATENT ASSIGNEE(S): Peop. Rep. China
 SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 4 pp.
 CODEN: CNXXEV
 DOCUMENT TYPE: Patent
 LANGUAGE: Chinese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1181217	A	19980513	CN 1997-106146	19971017
CN 1045379	B	19991006		
WO 9920131	A1	19990429	WO 1998-CN209	19980930
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9893365	A1	19990510	AU 1998-93365	19980930
PRIORITY APPLN. INFO.:			CN 1997-106146	19971017
Searched by Barb O'Bryen & Toby Port				

WO 1998-CN209 19980930

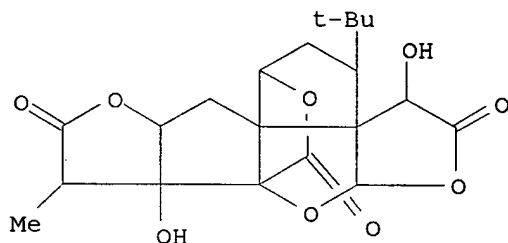
AB The raw material is composed of ginkgo leaf 50-100%, and tobacco 0-50%.

IT 15291-75-5 15291-76-6 15291-77-7

RL: BSU (Biological study, unclassified); BIOL (Biological study) (low-health-rise **cigarettes** manufd. from ginkgo leaf)

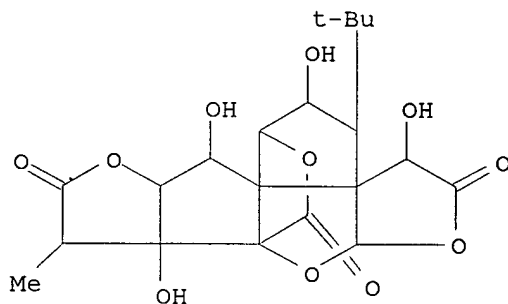
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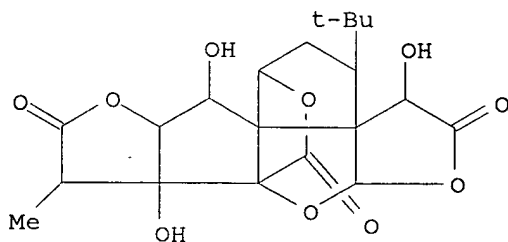
RN 15291-76-6 CAPLUS

CN 9H-1,7a-(Epoxy-methano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-2,4,7b,11-tetrahydroxy-8-methyl-, (1S,2R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11S,11aR)-(9CI) (CA INDEX NAME)



RN 15291-77-7 CAPLUS

CN 9H-1,7a-(Epoxy-methano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-4,7b,11-trihydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11S,11aR)-(9CI) (CA INDEX NAME)



L34 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2000 ACS

ACCESSION NUMBER: 2000:12273 CAPLUS

DOCUMENT NUMBER: 132:227524

TITLE: Liquid chromatography/electrospray mass spectrometry of bioactive terpenoids in Ginkgo biloba L.

AUTHOR(S): Mauri, Pierluigi; Migliazza, Barbara; Pietta, Piergiorgio

CORPORATE SOURCE: ITBA/CNR, Milan, 20090, Italy

SOURCE: J. Mass Spectrom. (1999), 34(12), 1361-1367

CODEN: JMSPFJ; ISSN: 1076-5174

PUBLISHER: John Wiley & Sons Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Standardized exts. of *G. biloba* leaves are mainly used in the treatment of peripheral and cerebral circulation disorders, and also as a remedy against asthma, coughs, bladder inflammation, blenorrhagia and alc . abuse. The leaf exts. contain biflavones, flavonol glycosides and terpene lactones. This paper reports a method based on liq. chromatog. coupled with electrospray mass spectrometry for the anal. of terpenoids in *G. biloba* exts. This method allows the rapid isocratic sepn. of underivatized ginkgolides (A, B, C and J) and bilobalide at very low levels (10 pg on the column) and their quant. detection by external standardization with relative std. deviations of 3 and 5% for intra- and inter-day analyses, resp.

IT 15291-75-5, Ginkgolide A 15291-76-6, Ginkgolide C

15291-77-7, Ginkgolide B 107438-79-9, Ginkgolide J

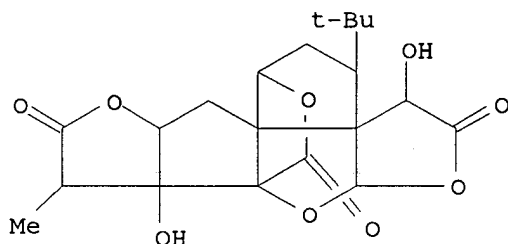
RL: ANT (Analyte); BOC (Biological occurrence); ANST (Analytical study);

BIOL (Biological study); OCCU (Occurrence)

(liq. chromatog./electrospray mass spectrometry of bioactive terpenoids in *Ginkgo biloba* exts..)

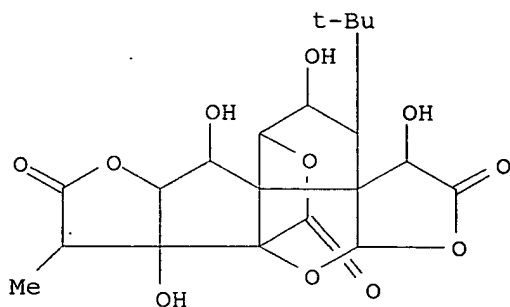
RN 15291-75-5 CAPLUS

CN 9H-1,7a-(Epoxyethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-4,7b-dihydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11aS)-(9CI) (CA INDEX NAME)



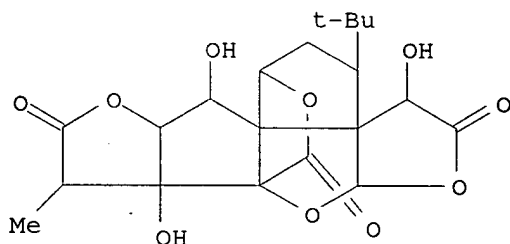
RN 15291-76-6 CAPLUS

CN 9H-1,7a-(Epoxyethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-2,4,7b,11-tetrahydroxy-8-methyl-, (1S,2R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11S,11aR)-(9CI) (CA INDEX NAME)



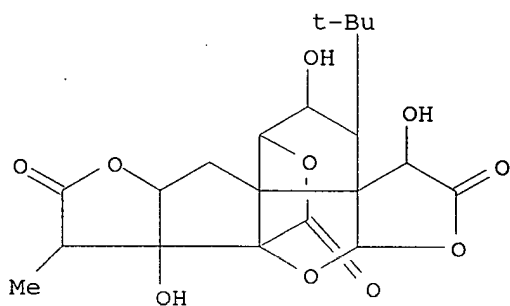
RN 15291-77-7 CAPLUS

CN 9H-1,7a-(Epoxy-methano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-4,7b,11-trihydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11S,11aR)-(9CI) (CA INDEX NAME)



RN 107438-79-9 CAPLUS

CN 9H-1,7a-(Epoxy-methano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-2,4,7b-trihydroxy-8-methyl-, (1S,2R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11aS)-(9CI) (CA INDEX NAME)



REFERENCE COUNT:

20

REFERENCE(S):

- (1) Biber, A; Planta Med 1999, V65, P192 CAPLUS
- (2) Bruno, C; Planta Med 1993, V59, P302 CAPLUS
- (3) Camponovo, F; Phytochem Anal 1995, V6, P141 CAPLUS
- (4) Chauret, N; J Chromatogr 1991, V588, P281 CAPLUS
- (7) Komoda, Y; Iyo Kizai Kenkyusho Hokuko 1988, V22, P83 CAPLUS

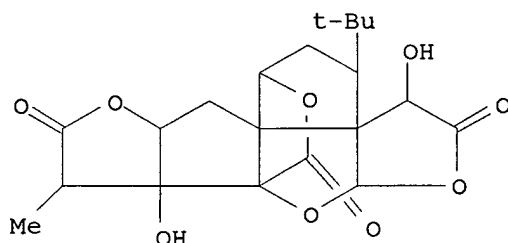
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L34 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2000 ACS

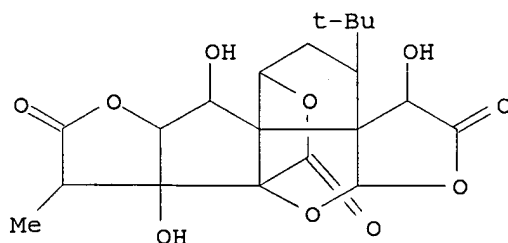
Searched by Barb O'Bryen & Toby Port

ACCESSION NUMBER: 1999:794218 CAPLUS
 DOCUMENT NUMBER: 132:26809
 TITLE: Ginkgo biloba extract enhanced bioavailability
 composition and food products
 INVENTOR(S): Daoud, Abdulwahid H.
 PATENT ASSIGNEE(S): USA
 SOURCE: U.S., 5 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	US 6001393	A	19991214	US 1997-892423	19970714
AB	A compn. and method which increases the bioavailability of ingested Ginkgo Biloba ext. (GBE). The compn. comprises a mixt. of polyol(s), and GBE. The compn. is ingested, either in the concd. paste form, dild. with edible liq. or food as an additive. Increased serum levels of ginkgolide A, B and bilobalide are demonstrated for individuals ingesting the compn. over ingesting GBE without the polyol(s).				
IT	15291-75-5, Ginkgolide a 15291-77-7, Ginkgolide b RL: BOC (Biological occurrence); BPR (Biological process); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); PROC (Process); USES (Uses) (Ginkgo biloba ext. enhanced bioavailability compn. and food products)				
RN	15291-75-5 CAPLUS				
CN	9H-1,7a-(Epoxy-methano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-4,7b-dihydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11aS)-(9CI) (CA INDEX NAME)				



RN 15291-77-7 CAPLUS
 CN 9H-1,7a-(Epoxy-methano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-4,7b,11-trihydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11S,11aR)-(9CI) (CA INDEX NAME)



Searched by Barb O'Bryen & Toby Port

REFERENCE COUNT: 12
REFERENCE(S): (1) Allard; US 5525359 1996
(2) Ayroles; US 4981688 1991
(4) Hastings; US 5626849 1997 CAPLUS
(6) Liu; US 4708949 1987 CAPLUS
(7) Majeed; US 5536506 1996 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L34 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2000 ACS

ACCESSION NUMBER: 1999:497039 CAPLUS

DOCUMENT NUMBER: 131:120852

TITLE: Ginkgo biloba extracts for the preparation of
pharmaceuticals for treatment of drug dependence/
addiction

INVENTOR(S): Drieu, Katy

PATENT ASSIGNEE(S): Societe de Conseils de Recherches et d'Applications
Scientifiques Scras S.A., Fr.

SOURCE: Fr. Demande, 27 pp.

CODEN: FRXXBL

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2771639	A1	19990604	FR 1997-15230	19971203
FR 2771639	B1	20000505		

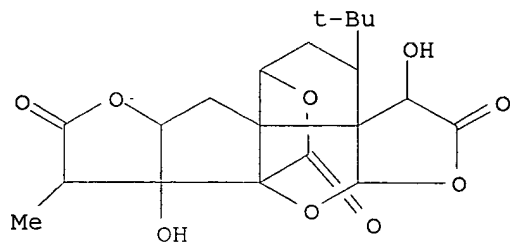
OTHER SOURCE(S): MARPAT 131:120852

AB The use of G. biloba exts. for the treatment of drug dependence/
addiction, e.g., **alcoholism**, **tobacco**
dependence, is described. The effect of the exts. on the dependence on
alc. was studied in rats. Rats receiving 50 or 100 mg/kg ext./day
showed a decreased hyperactivity effect.

IT 15291-75-5, Ginkgolide A 15291-77-7, Ginkgolide B
RL: BAC (Biological activity or effector, except adverse); BOC (Biological
occurrence); RCT (Reactant); THU (Therapeutic use); BIOL (Biological
study); OCCU (Occurrence); USES (Uses)
(Ginkgo biloba exts. for pharmaceuticals in treatment of drug
dependence/**addiction**)

RN 15291-75-5 CAPLUS

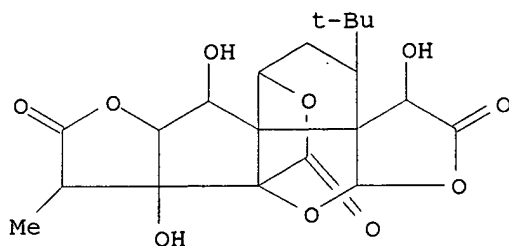
CN 9H-1,7a-(Epoxy-methano)-1H,6aH-cyclopenta[c]furo[2,3-
b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione,
3-(1,1-dimethylethyl)hexahydro-4,7b-dihydroxy-8-methyl-,
(1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11aS)- (9CI) (CA INDEX NAME)



RN 15291-77-7 CAPLUS

CN 9H-1,7a-(Epoxy-methano)-1H,6aH-cyclopenta[c]furo[2,3-
b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione,
Searched by Barb O'Bryen & Toby Port

3-(1,1-dimethylethyl)hexahydro-4,7b,11-trihydroxy-8-methyl-,
(1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11S,11aR)- (9CI) (CA INDEX NAME)



IT 15291-75-5DP, Ginkgolide a, derivs. 201736-31-4P

201736-32-5P 201736-33-6P 201736-34-7P

201736-45-0P 201736-47-2P 201736-49-4P

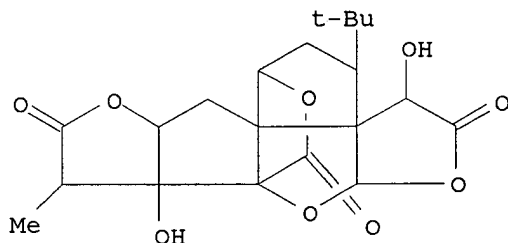
201736-56-3P 201736-63-2P

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(Ginkgo biloba exts. for pharmaceuticals in treatment of drug dependence/addiction)

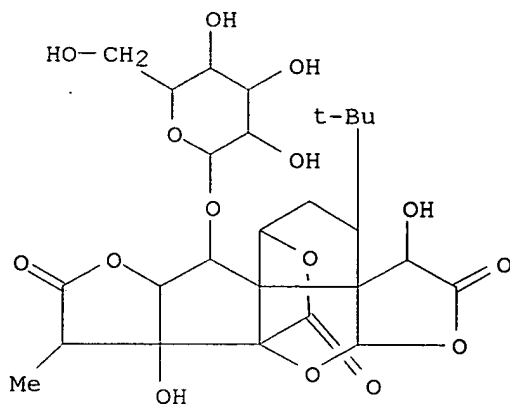
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3-(1,1-dimethylethyl)hexahydro-4,7b-dihydroxy-8-methyl-,
(1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11aS)- (9CI) (CA INDEX NAME)



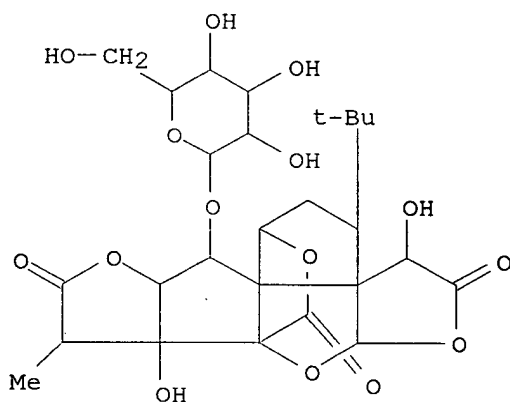
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3-(1,1-dimethylethyl)-11-(.beta.-D-glucopyranosyloxy)hexahydro-4,7b-dihydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11R,11aS)- (9CI)
(CA INDEX NAME)



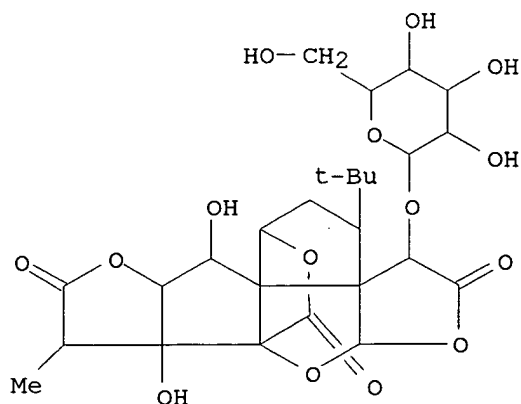
RN 201736-32-5 CAPLUS

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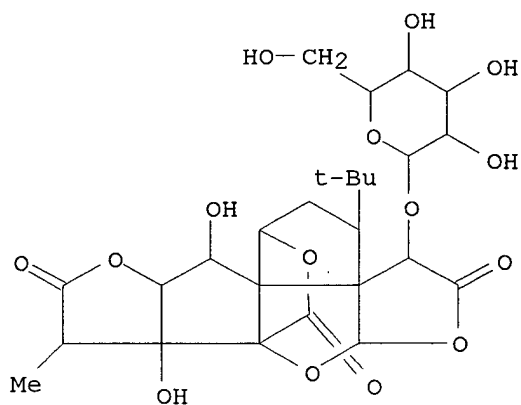
RN 201736-33-6 CAPLUS

CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)-4-(.beta.-D-glucopyranosyloxy)hexahydro-7b,11-dihydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11R,11aR)- (9CI) (CA INDEX NAME)



RN 201736-34-7 . CAPLUS

CN 9H-1,7a-(Epoxy-methano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)-4-(.alpha.-D-glucopyranosyloxy)hexahydro-7b,11-dihydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11R,11aR)- (9CI) (CA INDEX NAME)

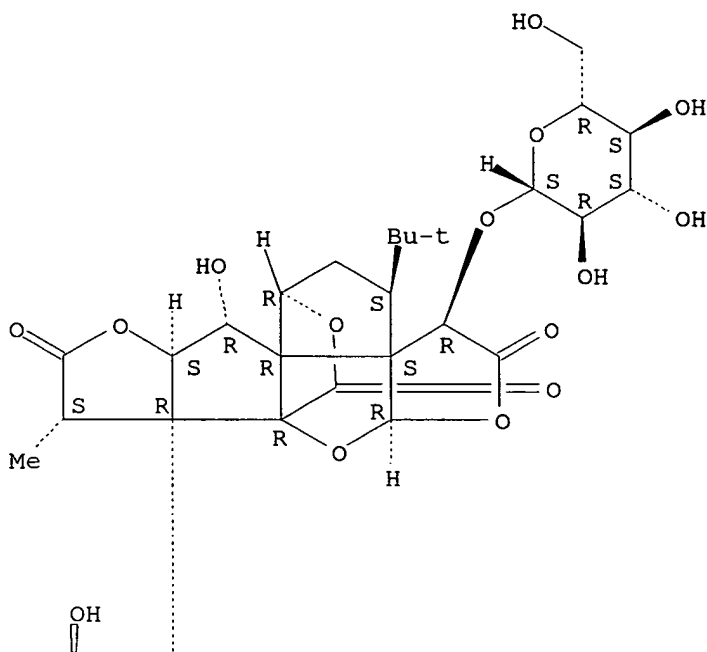


RN 201736-45-0 CAPLUS

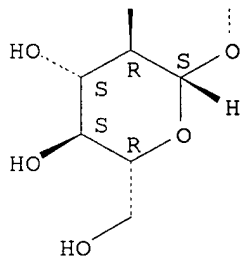
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Absolute stereochemistry.

PAGE 1-A



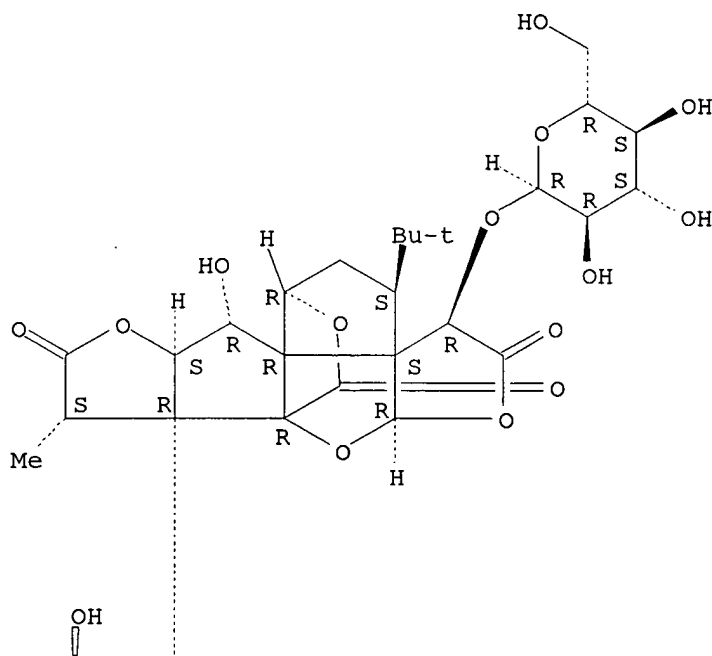
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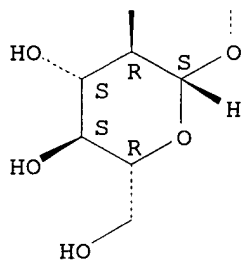
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 3-(1,1-dimethylethyl)-4-(.alpha.-D-glucopyranosyloxy)-7b-(.beta.-D-glucopyranosyloxy)hexahydro-11-hydroxy-8-methyl-,
 (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11R,11aR)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



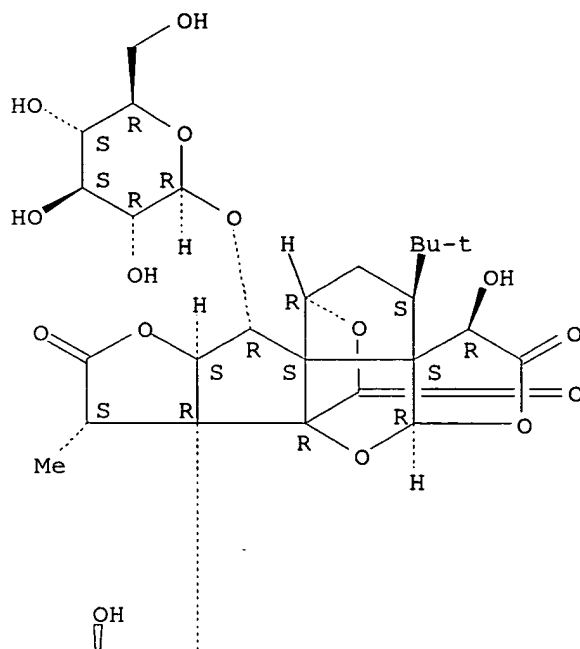
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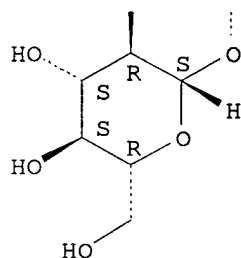
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 3-(1,1-dimethylethyl)-7b,11-bis(.beta.-D-glucopyranosyloxy)hexahydro-4-hydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11R,11aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



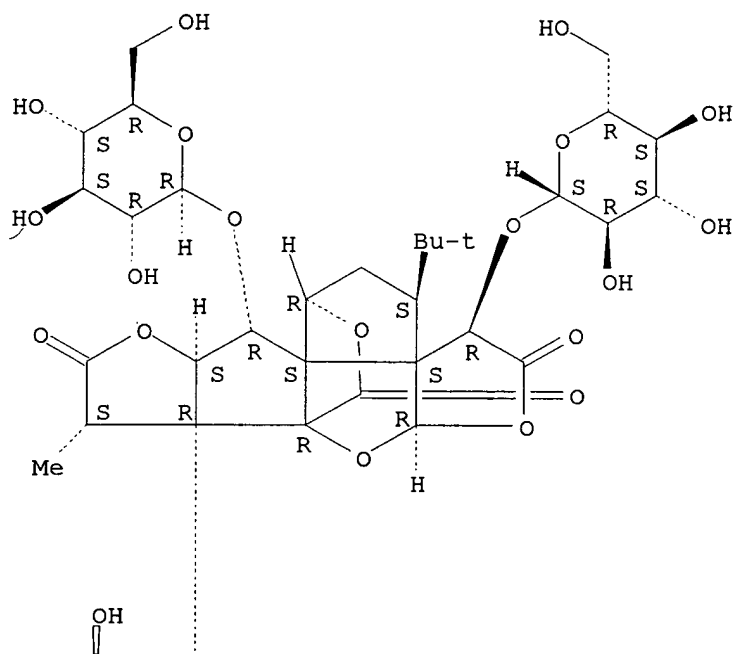
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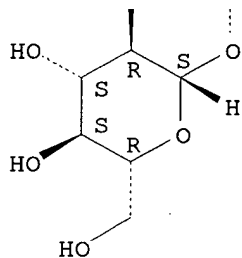
RN 201736-56-3 CAPLUS
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Absolute stereochemistry.

PAGE 1-A

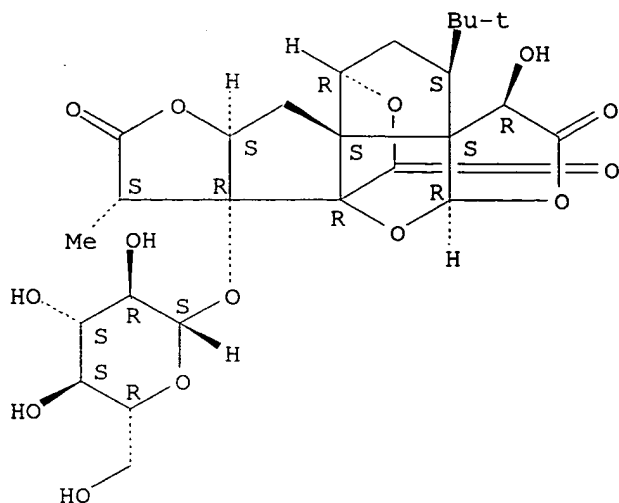


PAGE 2-A



RN 201736-63-2 CAPLUS
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 3-(1,1-dimethylethyl)-7b-(.beta.-D-glucopyranosyloxy)hexahydro-4-hydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

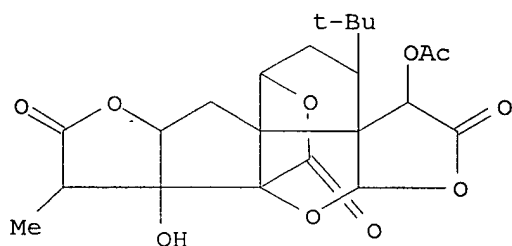


IT 38741-05-8P 201736-27-8P 201736-28-9P
 201736-29-0P 201736-30-3P 201736-35-8P
 201736-37-0P 201736-41-6P 201736-43-8P
 201736-51-8P 201736-52-9P 201736-54-1P
 201736-59-6P 201736-61-0P 232612-16-7P
 232612-20-3P 232612-21-4P 232612-22-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (Ginkgo biloba exts. for pharmaceuticals in treatment of drug
 dependence/**addiction**)

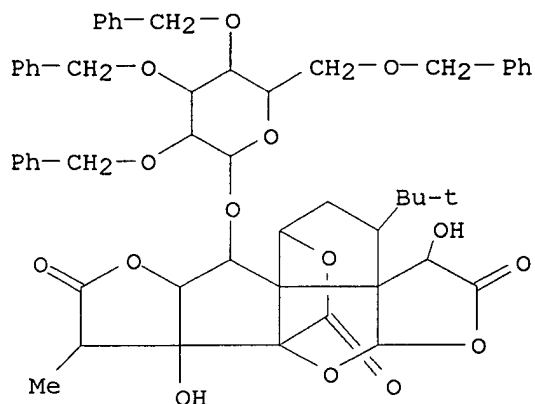
RN 38741-05-8 CAPLUS

CN 9H-1,7a-(Epoxy-methano)-1H,6aH-cyclopenta[c]furo[2,3-
 b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione,
 4-(acetyloxy)-3-(1,1-dimethylethyl)hexahydro-7b-hydroxy-8-methyl-,
 (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11aS)- (9CI) (CA INDEX NAME)



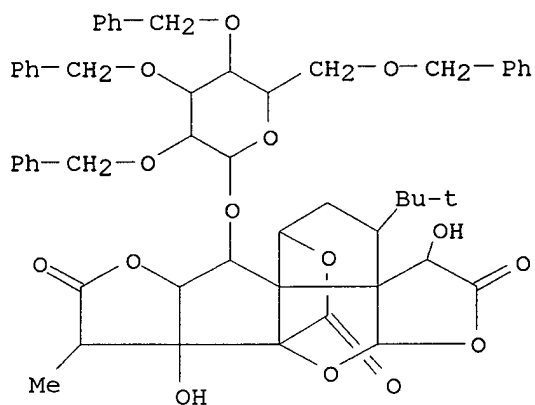
RN 201736-27-8 CAPLUS

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 b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione,
 3-(1,1-dimethylethyl)hexahydro-4,7b-dihydroxy-8-methyl-11-[[2,3,4,6-
 tetrakis-O-(phenylmethyl)-.beta.-D-glucopyranosyl]oxy]-,
 (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11R,11aS)- (9CI) (CA INDEX NAME)



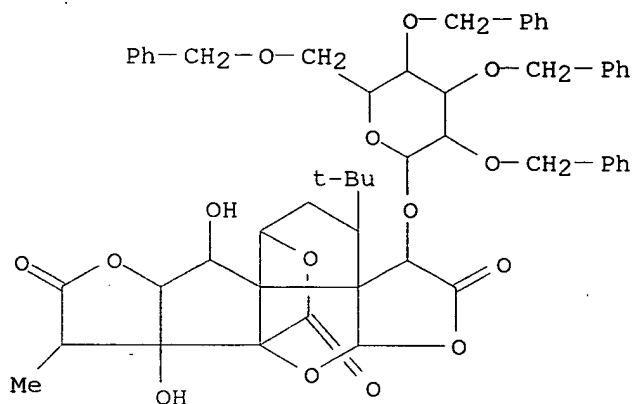
RN 201736-28-9 CAPLUS

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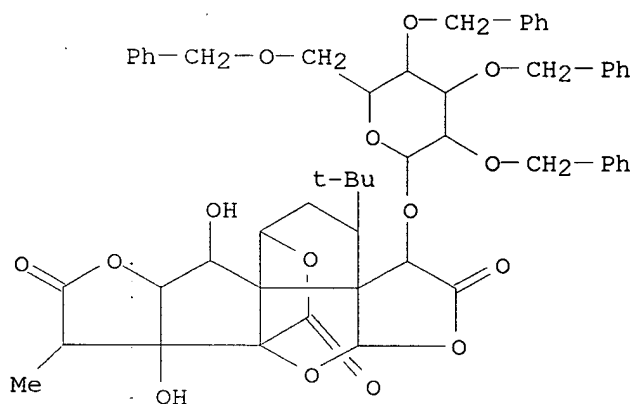
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RN 201736-30-3 CAPLUS

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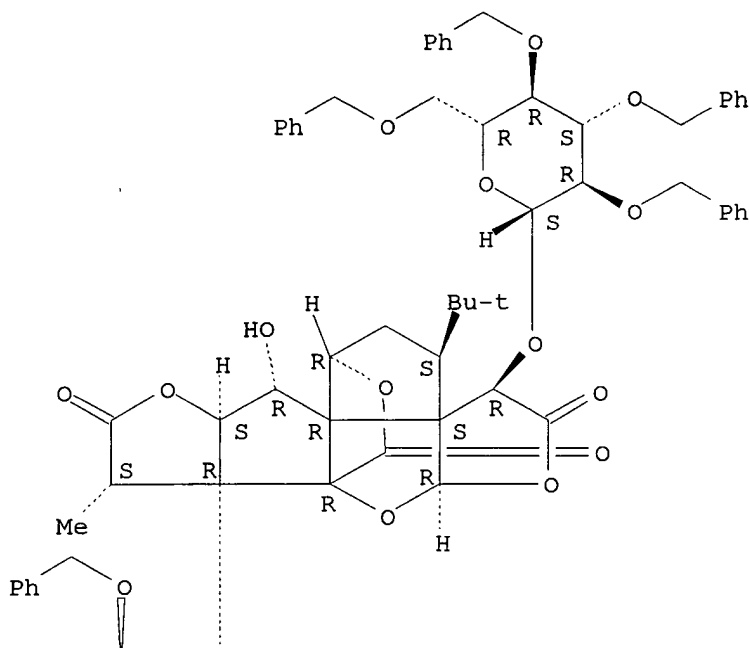


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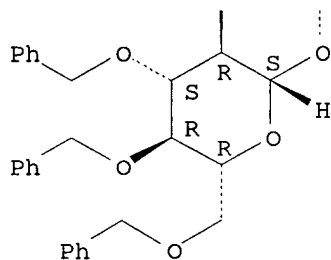
CN 9H-1,7a-(Epoxy-methano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-11-hydroxy-8-methyl-4,7b-bis[[2,3,4,6-tetrakis-O-(phenylmethyl)-.beta.-D-glucopyranosyl]oxy]-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11R,11aR)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



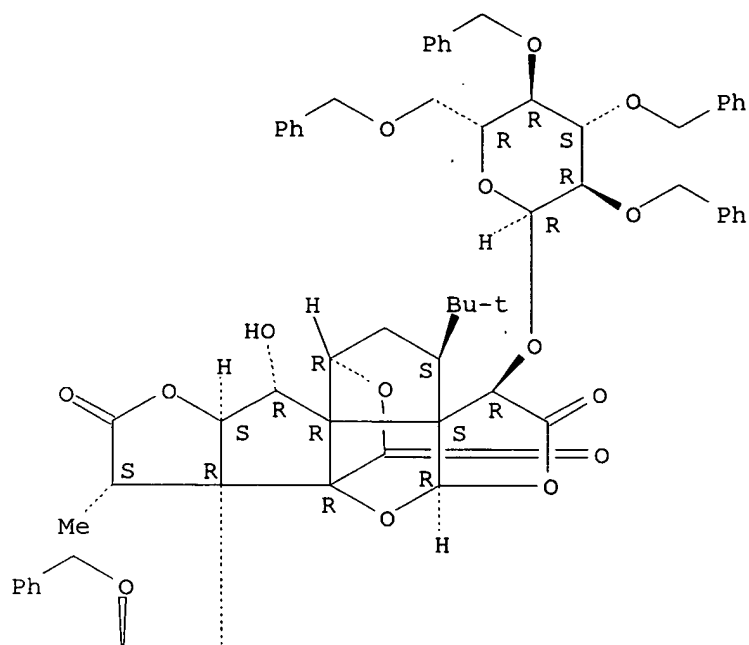
PAGE 2-A



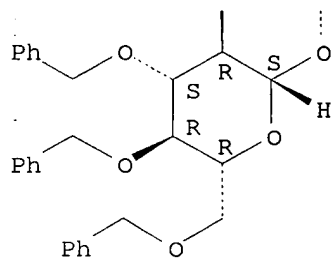
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 3-(1,1-dimethylethyl)hexahydro-11-hydroxy-8-methyl-4-[[2,3,4,6-tetrakis-O-(phenylmethyl)-.alpha.-D-glucopyranosyl]oxy]-7b-[[2,3,4,6-tetrakis-O-(phenylmethyl)-.beta.-D-glucopyranosyl]oxy]-,
 (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11R,11aR)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



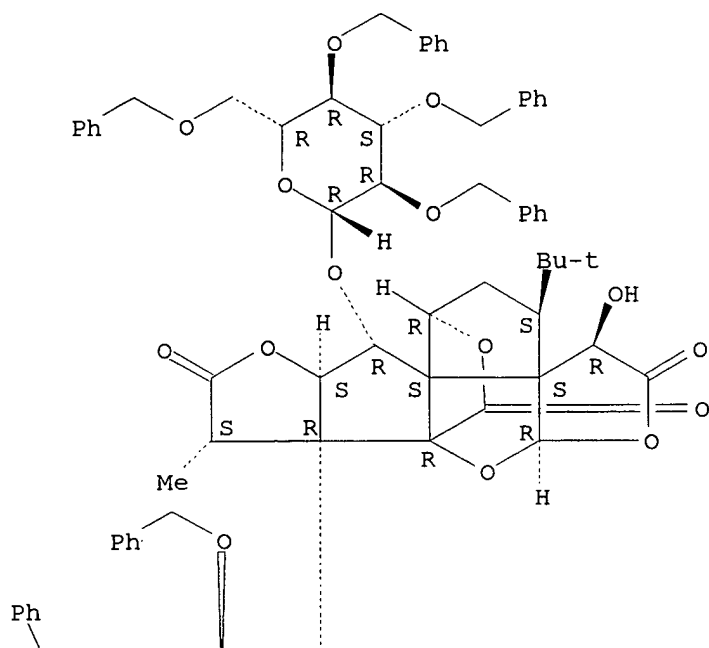
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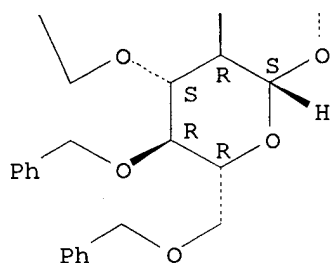
RN 201736-41-6 CAPLUS
 CN 9H-1,7a-(Epoxy-methano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-4-hydroxy-8-methyl-7b,11-bis[[2,3,4,6-tetrakis-O-(phenylmethyl)-.beta.-D-glucopyranosyl]oxy]-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11R,11aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



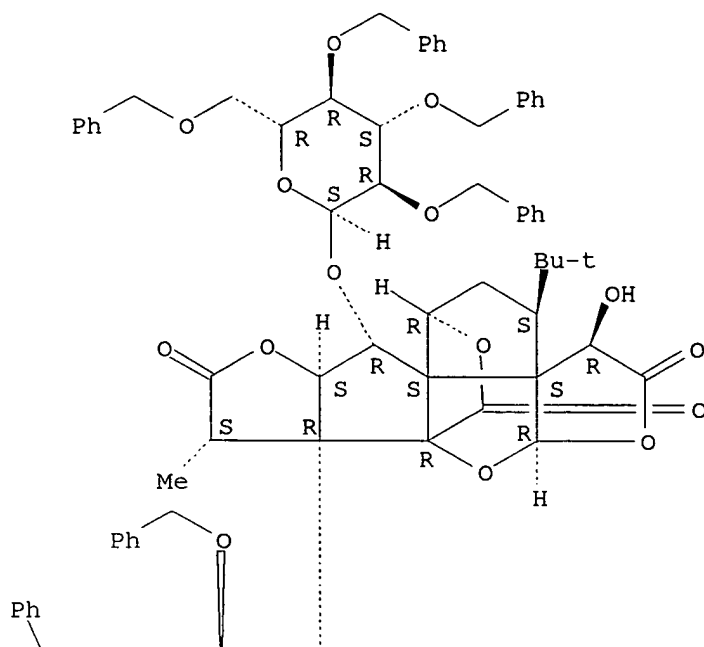
PAGE 2-A



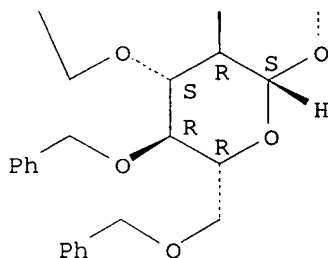
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 3-(1,1-dimethylethyl)hexahydro-4-hydroxy-8-methyl-11-[[2,3,4,6-tetrakis-O-(phenylmethyl)-.alpha.-D-glucopyranosyl]oxy]-7b-[[2,3,4,6-tetrakis-O-(phenylmethyl)-.beta.-D-glucopyranosyl]oxy]-,
 (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11R,11aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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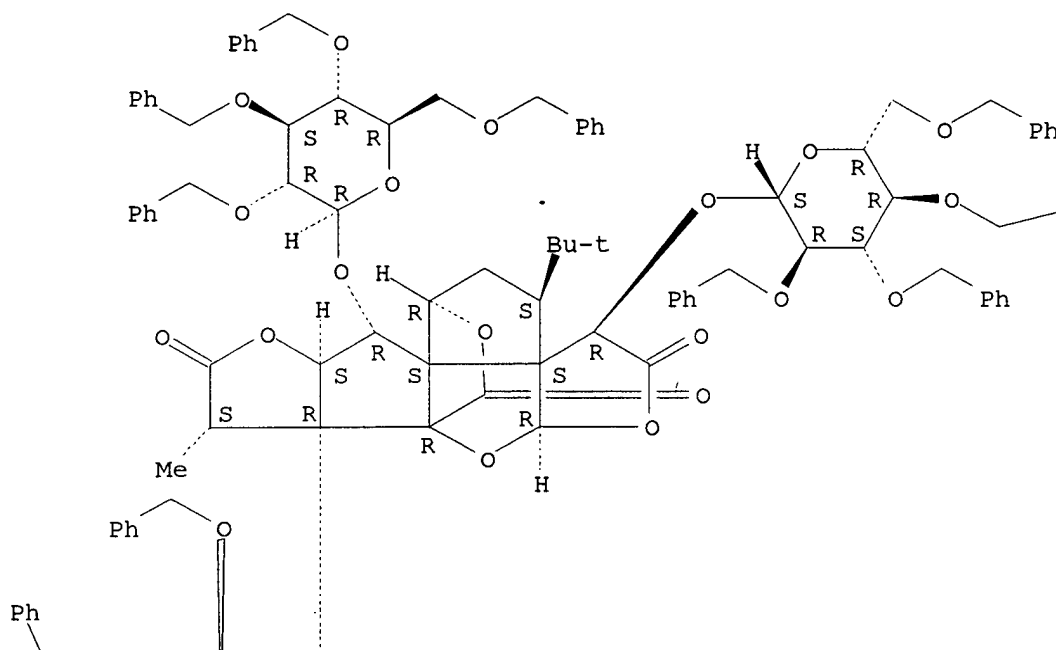
PAGE 2-A



RN 201736-51-8 CAPLUS
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 3-(1,1-dimethylethyl)hexahydro-8-methyl-4,7b,11-tris[[2,3,4,6-tetrakis-O-(phenylmethyl)-.beta.-D-glucopyranosyl]oxy]-,
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Absolute stereochemistry.

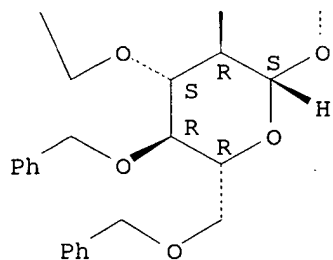
PAGE 1-A



PAGE 1-B

— Ph

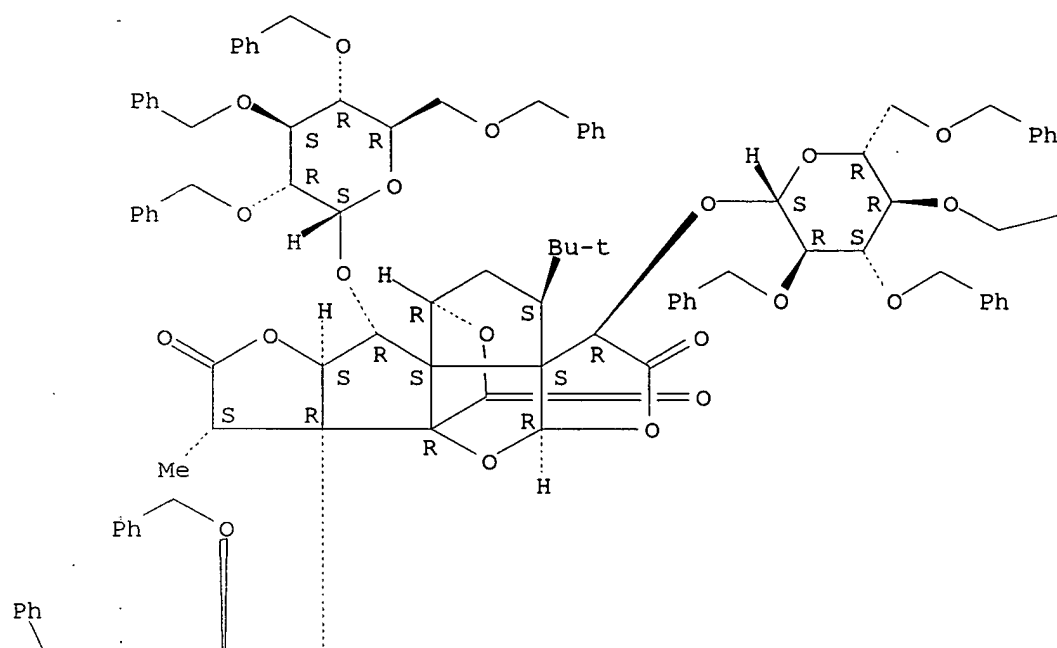
PAGE 2-A



RN 201736-52-9 CAPLUS
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 3-(1,1-dimethylethyl)hexahydro-8-methyl-11-[[2,3,4,6-tetrakis-O-(phenylmethyl)-.alpha.-D-glucopyranosyl]oxy]-4,7b-bis[[2,3,4,6-tetrakis-O-(phenylmethyl)-.beta.-D-glucopyranosyl]oxy]-,
 (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11R,11aS)-(9CI) (CA INDEX NAME)
 Searched by Barb O'Bryen & Toby Port

Absolute stereochemistry.

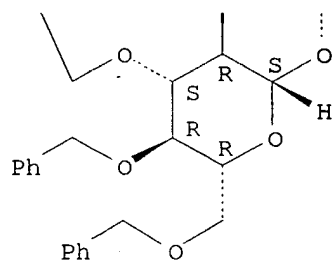
PAGE 1-A



PAGE 1-B

— Ph

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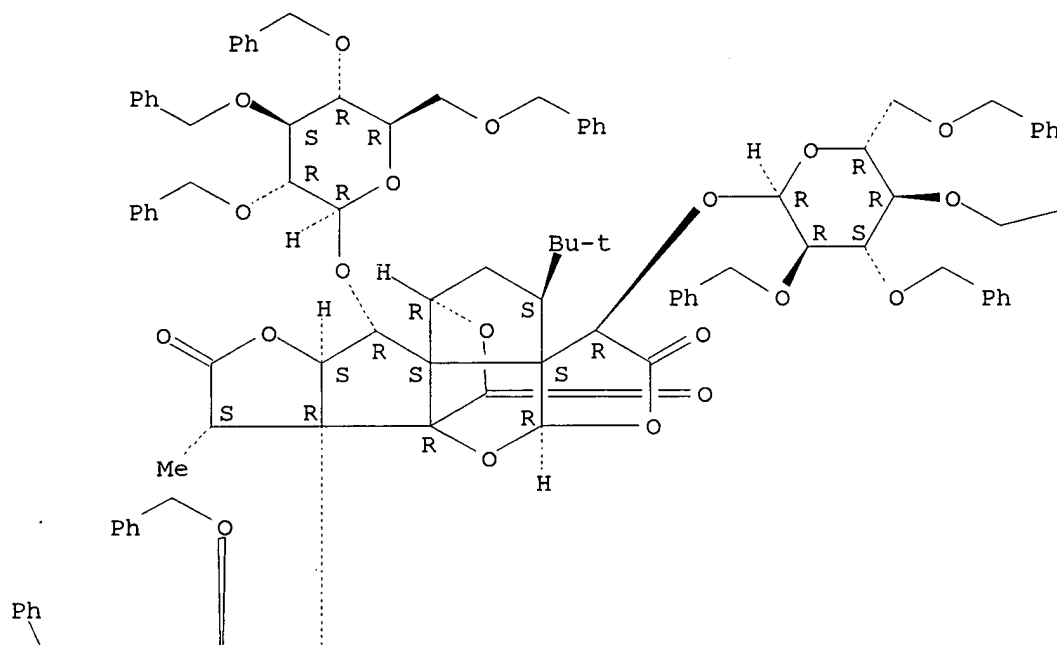
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Searched by Barb O'Bryen & Toby Port

(phenylmethyl)-.beta.-D-glucopyranosyl]oxy]-,
(1R, 3S, 3aS, 4R, 6aR, 7aR, 7bR, 8S, 10aS, 11R, 11aS) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

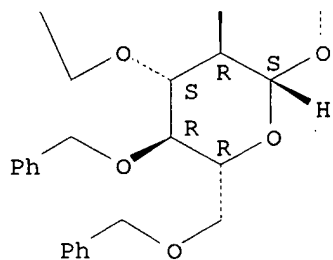
PAGE 1-A



PAGE 1-B

— Ph

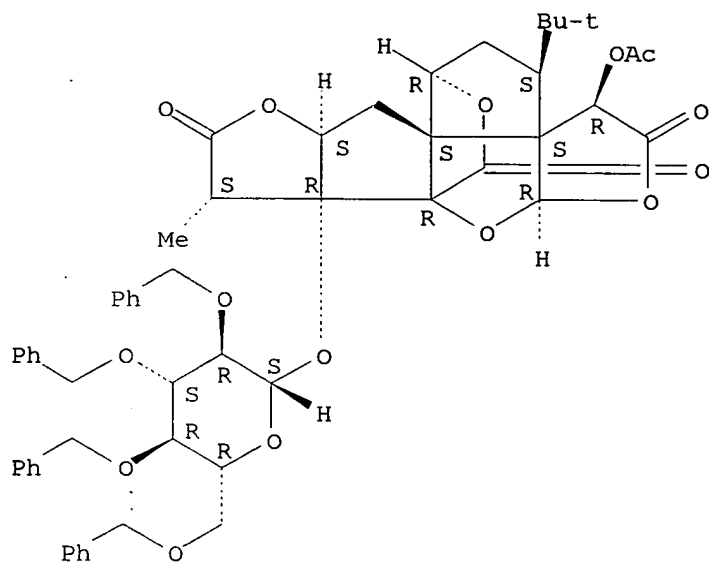
PAGE 2-A



RN 201736-59-6 CAPLUS
CN 9H-1, 7a-(Epoxymethano)-1H, 6aH-cyclopenta[c]furo[2,3-
b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione,
Searched by Barb O'Bryen & Toby Port

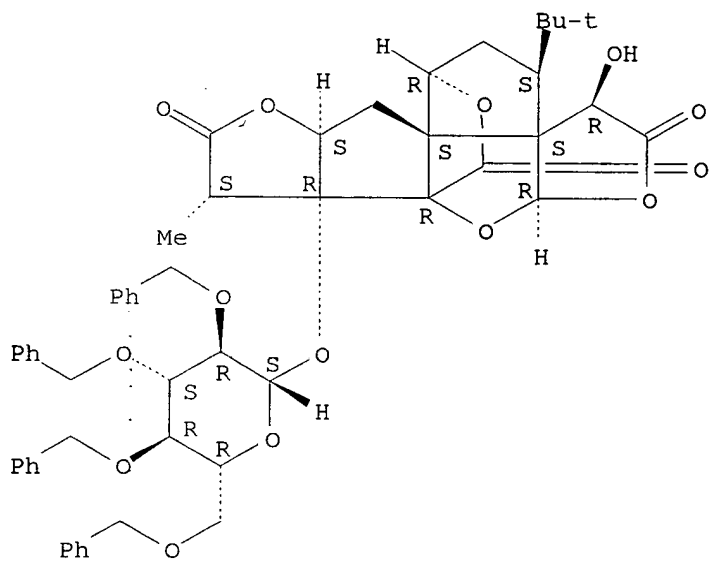
4-(acetyloxy)-3-(1,1-dimethylethyl)hexahydro-8-methyl-7b-[[2,3,4,6-tetrakis-O-(phenylmethyl)-.beta.-D-glucopyranosyl]oxy]-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 201736-61-0 CAPLUS
 CN 9H-1,7a-(Epoxy-methano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-4-hydroxy-8-methyl-7b-[[2,3,4,6-tetrakis-O-(phenylmethyl)-.beta.-D-glucopyranosyl]oxy]-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

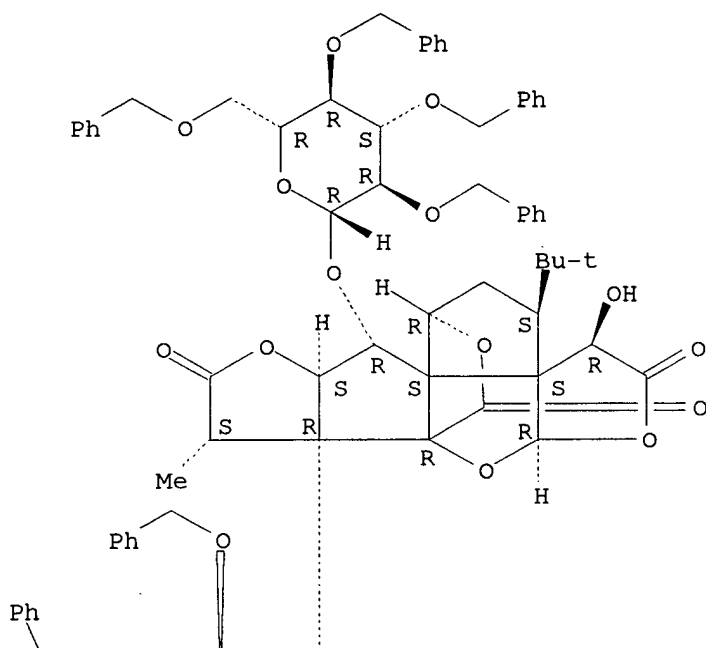


RN 232612-16-7 CAPLUS
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 Searched by Barb O'Bryen & Toby Port

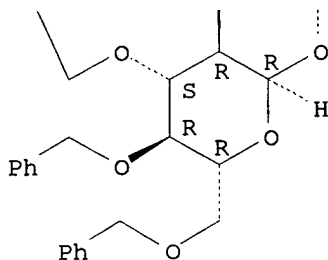
3-(1,1-dimethylethyl)hexahydro-4-hydroxy-8-methyl-7b-[[2,3,4,6-tetrakis-O-(phenylmethyl)-.alpha.-D-glucopyranosyl]oxy]-11-[[2,3,4,6-tetrakis-O-(phenylmethyl)-.beta.-D-glucopyranosyl]oxy]-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11R,11aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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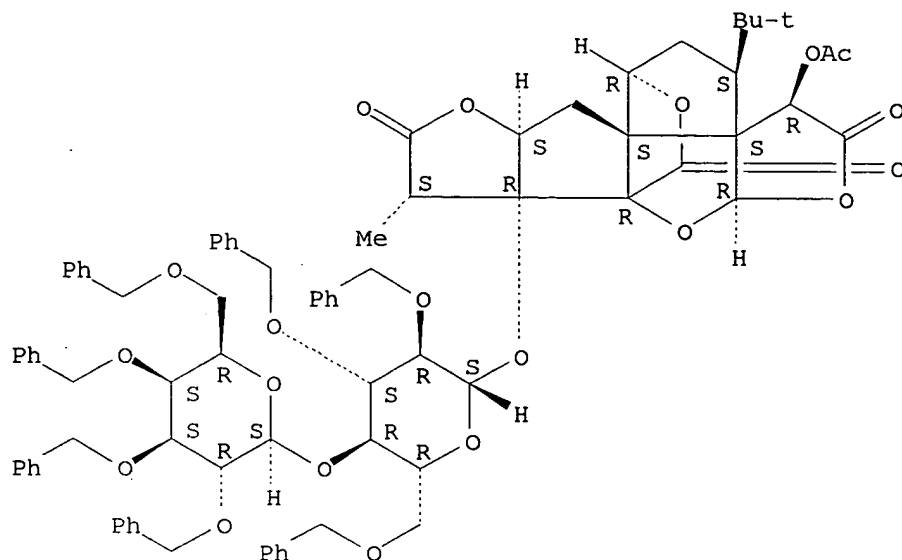
PAGE 2-A



RN 232612-20-3 CAPLUS
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Absolute stereochemistry.

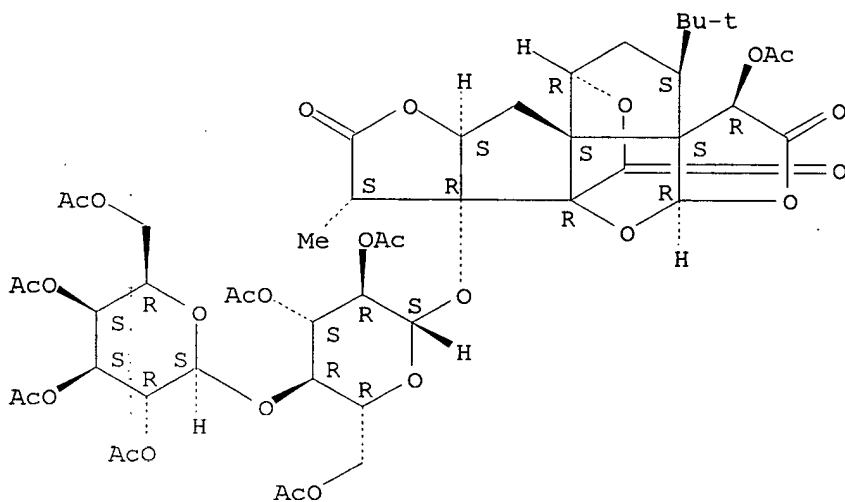
Searched by Barb O'Bryen & Toby Port



RN 232612-21-4 CAPLUS

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Absolute stereochemistry.

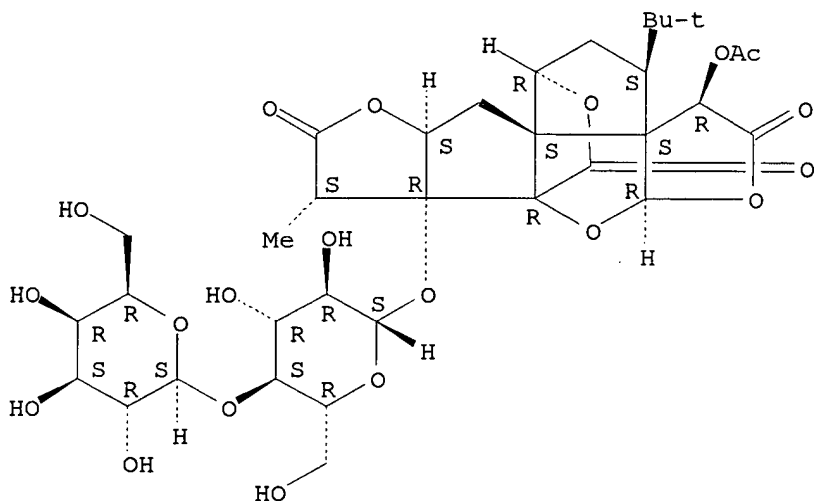


RN 232612-22-5 CAPLUS

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Absolute stereochemistry.

Searched by Barb O'Bryen & Toby Port



L34 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2000 ACS

ACCESSION NUMBER: 1996:436102 CAPLUS

DOCUMENT NUMBER: 125:95719

TITLE: Sample preparation of standardized extracts of Ginkgo biloba by supercritical fluid extraction

AUTHOR(S): van Beek, Teris A.; Taylor, Larry T.

CORPORATE SOURCE: Dep. Org. Chem., Agric. Univ., Wageningen, 6703 HB, Neth.

SOURCE: Phytochem. Anal. (1996), 7(4), 185-191

CODEN: PHANEL; ISSN: 0958-0344

DOCUMENT TYPE: Journal

LANGUAGE: English

AB A method of sample prepn. of standardized exts. of Ginkgo biloba using supercrit. fluid extn. (SFE) is described. Ginkgolides and bilobalide could selectively extd. with carbon dioxide contg. 10% methanol at 335 atm and 45.degree.C from a methanolic soln. of the ext. An in-line filter of silica gel was found to be essential for obtaining clean samples. Trapping was carried out with a solid silica gel trap at 80.degree.C. After eluting the trap with Me acetate, the sample could be analyzed by gas liq. chromatog. or high performance liq. chromatog. Recoveries of the five terpenes relative to a std. solid phase extn. (SPE) procedure varied for two different exts. from 98.6 to 102.3%. Relative std. deviations were better for SFE than for SPE. A further advantage for the SFE over the SPE method is that it is much less laborious. A disadvantage is that it requires an automated supercrit. extractor. With a small adaptation, the SFE method could also be used for finished ginkgo drugs in an aq. alc. soln.

IT 15291-75-5, Ginkgolide a 15291-76-6, Ginkgolide C

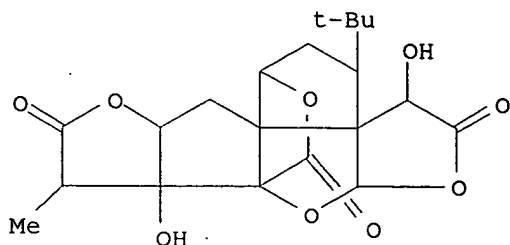
15291-77-7, Ginkgolide b 107438-79-9, Ginkgolide J

RL: ANT (Analyte); BPR (Biological process); ANST (Analytical study); BIOL (Biological study); PROC (Process)

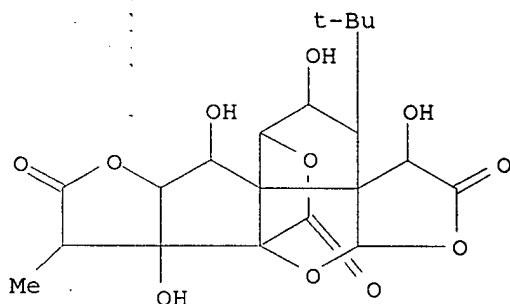
(use of supercrit. fluid extn. for the simultaneous extn. and purifn. of standardized ginkgo exts.)

RN 15291-75-5 CAPLUS

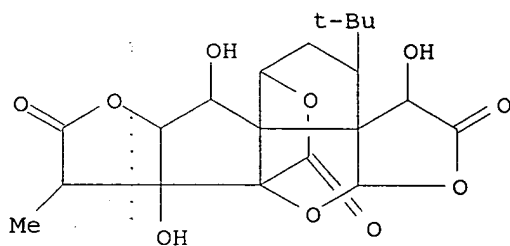
CN 9H-1,7a-(Epoxy-methano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-4,7b-dihydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11aS)- (9CI) (CA INDEX NAME)



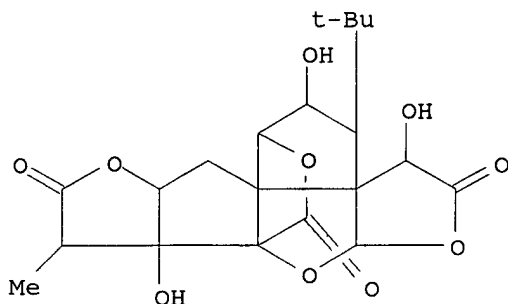
RN 15291-76-6 CAPLUS
 CN 9H-1,7a-(Epoxy-methano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-2,4,7b,11-tetrahydroxy-8-methyl-, (1S,2R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11S,11aR)- (9CI) (CA INDEX NAME)



RN 15291-77-7 CAPLUS
 CN 9H-1,7a-(Epoxy-methano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-4,7b,11-trihydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11S,11aR)- (9CI) (CA INDEX NAME)



RN 107438-79-9 CAPLUS
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L34 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2000 ACS

ACCESSION NUMBER: 1994:45965 CAPLUS

DOCUMENT NUMBER: 120:45965

TITLE: Methods of treating aphthous ulcers and other mucocutaneous disorders

INVENTOR(S): Vora, Kakubhai R.; Khandwala, Atul; Smith, Charles G.

PATENT ASSIGNEE(S): Chemex/Block Drug, JV, USA

SOURCE: Can. Pat. Appl., 26 pp.

CODEN: CPXXEB

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CA 2065496	AA	19921010	CA 1992-2065496	19920409
JP 05097706	A2	19930420	JP 1992-87185	19920408
EP 518798	A2	19921216	EP 1992-470014	19920409
EP 518798	A3	19941207		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, PT, SE				
EP 836852	A1	19980422	EP 1997-202524	19920409
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT				
PRIORITY APPLN. INFO.:			US 1991-682347	19910409
			EP 1992-470014	19920409

OTHER SOURCE(S): MARPAT 120:45965

AB For treatment of aphthous ulcers and mucocutaneous disorders, a compn. contg. .gtoreq.1 drug selected from mediator release inhibitors; 5-lipoxygenase inhibitors; leukotriene antagonists; and platelet-activating factor antagonists is claimed. Patients with aphthous ulcers treated twice a day for three days with 5% treating agent showed clin. significant improvement in all parameters (e.g. ulcer size and redn. in erythema) measured over the vehicle paste.

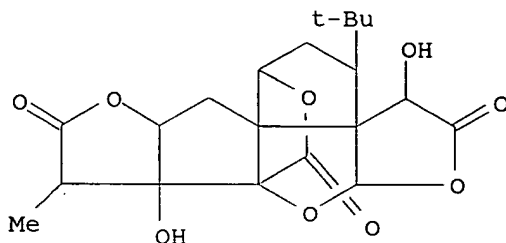
IT 15291-75-5, Ginkgolide A 15291-77-7

RL: BIOL (Biological study)

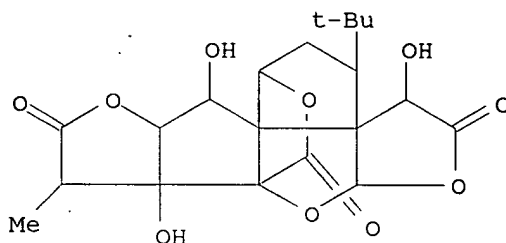
(compn. contg., for treating aphthous ulcers and mucocutaneous disorders)

RN 15291-75-5 CAPLUS

CN 9H-1, 7a- (Epoxyethano)-1H, 6aH-cyclopenta[c]furo[2, 3-b]furo[3', 2': 3, 4]cyclopenta[1, 2-d]furan-5, 9, 12(4H)-trione, 3-(1, 1-dimethylethyl)hexahydro-4, 7b-dihydroxy-8-methyl-, (1R, 3S, 3aS, 4R, 6aR, 7aR, 7bR, 8S, 10aS, 11aS)- (9CI) (CA INDEX NAME)



RN 15291-77-7 CAPLUS
 CN 9H-1,7a-(Epoxyethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-4,7b,11-trihydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11S,11aR)- (9CI) (CA INDEX NAME)



L34 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2000 ACS

ACCESSION NUMBER: 1991:415699 CAPLUS

DOCUMENT NUMBER: 115:15699

TITLE: Determination of ginkgolides and bilobalide in Ginkgo biloba leaves and phytopharmaceuticals

AUTHOR(S): Van Beek, T. A.; Scheeren, H. A.; Rantio, T.; Melger, W. C.; Lelyveld, G. P.

CORPORATE SOURCE: Lab. Org., Agric. Univ., Wageningen, 6703 HB, Neth.

SOURCE: J. Chromatogr. (1991), 543(2), 375-87

CODEN: JOCRAM; ISSN: 0021-9673

DOCUMENT TYPE: Journal

LANGUAGE: English

AB A method was developed for the detn. of the pharmacol. active terpenoids ginkgolide A, B and C and bilobalide in G. biloba leaves and phytopharmaceutical preps. contg. ginkgo exts. The leaves (400-800 mg) are selectively extd. with MeOH-H₂O (10:90) and the resulting ext. is purified by a polyamide and a C18 solid-phase extn. column. After concn., the terpenoids are detd. by HPLC on a C18 column with MeOH-H₂O (33:67) as eluent and refractive index detection. Benzyl alc. is used as an internal std. The recovery of the method is 95%. The reproducibility is dependent on the concn. and varies from 2 to 15%. The min. concn. that can be detd. in leaves is 10 .mu.g of terpenoid/g of dry leaves. With a small modification the method can be used equally well for phytopharmaceuticals. Several ginkgo medicines were investigated and the total concn. of terpenoids was found to vary by a factor 18. The concn. in leaves varied by a factor 40.

IT 15291-75-5, Ginkgolide A 15291-76-6, Ginkgolide C

15291-77-7, Ginkgolide B 107438-79-9, Ginkgolide J

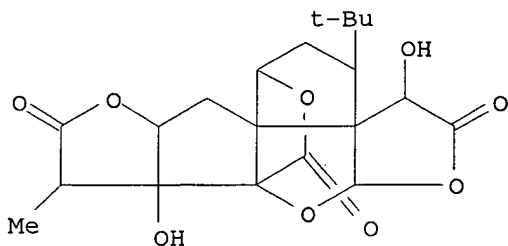
RL: ANT (Analyte); ANST (Analytical study)

(detn. of, in Ginkgo biloba leaves, by HPLC)

RN 15291-75-5 CAPLUS

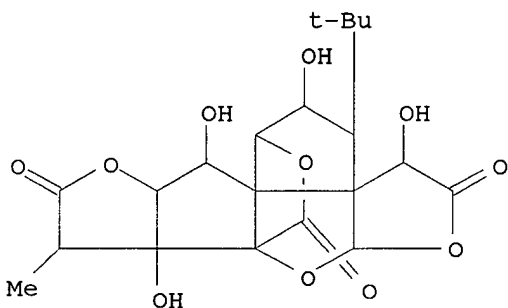
Searched by Barb O'Bryen & Toby Port

CN 9H-1,7a-(Epoxy methano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-4,7b-dihydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11aS)-(9CI) (CA INDEX NAME)



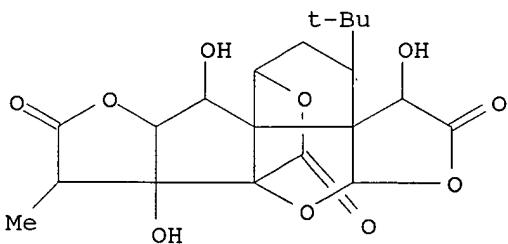
RN 15291-76-6 CAPLUS

CN 9H-1,7a-(Epoxy methano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-2,4,7b,11-tetrahydroxy-8-methyl-, (1S,2R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11S,11aR)-(9CI) (CA INDEX NAME)



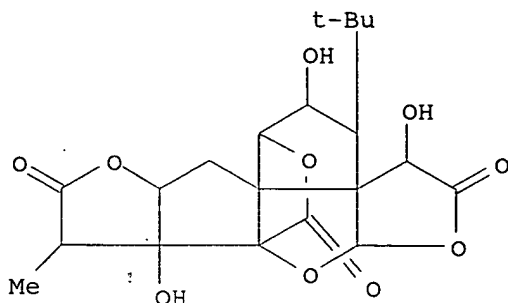
RN 15291-77-7 CAPLUS

CN 9H-1,7a-(Epoxy methano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-4,7b,11-trihydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11S,11aR)-(9CI) (CA INDEX NAME)



RN 107438-79-9 CAPLUS

CN 9H-1,7a-(Epoxy methano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-2,4,7b-trihydroxy-8-methyl-, (1S,2R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11aS)-(9CI) (CA INDEX NAME)



L34 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2000 ACS

ACCESSION NUMBER: 1989:134945 CAPLUS

DOCUMENT NUMBER: 110:134945

TITLE: Enantioselective route to a key intermediate in the total synthesis of ginkgolide B

AUTHOR(S): Corey, E. J.; Gavai, Ashvinikumar V.

CORPORATE SOURCE: Dep. Chem., Harvard Univ., Cambridge, MA, 02138, USA

SOURCE: Tetrahedron Lett. (1988), 29(26), 3201-4

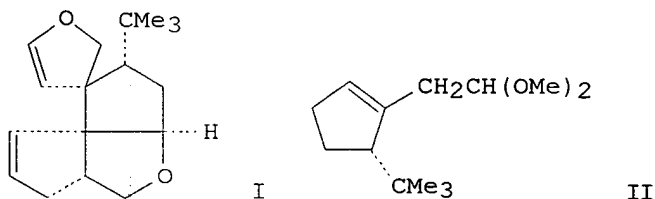
CODEN: TELEAY; ISSN: 0040-4039

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 110:134945

GI



AB An enantioselective route to the ginkgolide B, intermediate I has been developed which is based on enantioselective redn. of 2-(2,2-dimethoxyethyl)-2-cyclopenten-1-one to the (R)-**alc.** and subsequent distereoselective anti-SN2' displacement to form intermediate II which was converted in several steps to I.

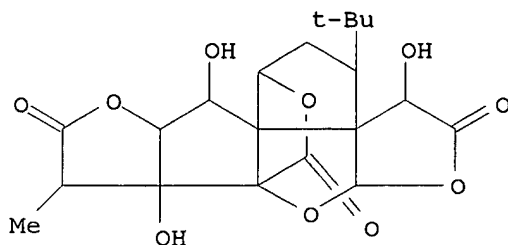
IT 112652-59-2, (+-)-Ginkgolide B

RL: RCT (Reactant)

(intermediate for, enantioselective prepn. of)

RN 112652-59-2 CAPLUS

CN 9H-1, 7a-(Epoxyethano)-1H, 6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-4,7b,11-trihydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11S,11aR)-rel- (9CI) (CA INDEX NAME)



L34 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2000 ACS

ACCESSION NUMBER: 1967:421756 CAPLUS

DOCUMENT NUMBER: 67:21756

TITLE: Ginkgolides. I. Isolation and characterization of the various groups

AUTHOR(S): Maruyama, Masao; Terahara, Akira; Itagaki, Yasuhiro; Nakanishi, Koji

CORPORATE SOURCE: Tohoku Univ., Sendai, Japan

SOURCE: Tetrahedron Lett. (1967), (4), 299-302

CODEN: TELEAY

DOCUMENT TYPE: Journal

LANGUAGE: English

AB An extended series of investigations showed that the 4 ginkgolides isolated from Ginkgo biloba are unique cage mols. which are C₂₀ compds. incorporating a tert-Bu group and 6 5-membered rings in a spiro[4.4]nonane system. A MeOH ext. of 100 kg. undried chopped root bark concd., the sirup washed with C₆H₆, the aq. layer sepd., and the solid content crystd. from EtOH gave 50 g. ginkgolides. The crystals taken up in Me₂CO and adsorbed on Celite and the Celite layered on silica gel and eluted with CHCl₃ contg. a trace of alc. gave a mixt. of ginkgolide A (I), ginkgolide B (II), a small amt. of ginkgolide M (III), and finally ginkgolide C (IV). The sepn. of I and II was extremely tedious and complicated by the polymorphic tendency of I. After 10-15 step fractional recrystn. 10, 10, 20, and 0.2 g. I, II, III, and IV were obtained. All are bitter compds. decomp. above 280.degree., and extremely stable to mineral acids. The relatively volatile I dimethyl ether, C₂₂H₂₈O₉, showed m/e 436, 168 and detns. by high resolution mass spectrometry showed I, II, III, IV to be C₂₀H₂₄ compds., C₂₀H₂₄O₉, [.alpha.]D -39.degree. (c 1.0, dioxane); C₂₀H₂₄O₁₀, [.alpha.]D -63.degree.; C₂₀H₂₄O₁₁, [.alpha.]D -19.degree.; and C₂₀H₂₄O₁₀, [.alpha.]D -39.degree., resp. The presence of a 9-proton singlet at 1.2-1.3 ppm. in the N.M.R. spectra of all derivs., and of a strong mass spectral peak at 57.074 suggest the presence of a tert-Bu group established by Kuhn-Roth oxidn. of IV and isolation of tert-BuCO₂H. Conventional N.M.R. techniques showed the presence of 1,2,3, and 3-secondary and 1,1,1, and 0-tertiary OH groups in I, II, III, and IV, resp. The ginkgolides showed strong but ill-defined ir absorption around 1780 cm.⁻¹ due only to lactone CO groups. The presence of 3 lactone groupings was suggested by lactone titrns. Absence of a ketone grouping was suggested also by plain neg. rotary dispersion curves exhibiting no Cotton effect in the 250-700 m.mu. range. The remaining O function in "I triether" was assigned to an ether linkage. Lack of olefinic peaks in N.M.R. spectra, absence of ir absorption near 1650 cm.⁻¹, and low end-absorption in the uv spectra showed lack of C:C double bonds and showed that the ginkgolides are hexacyclic compds.

IT 15291-75-5P 15291-76-6P 15291-77-7P

15291-78-8P

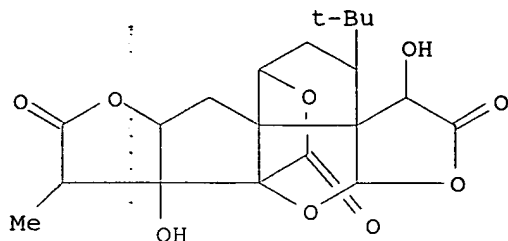
RL: PREP (Preparation)

(from Ginkgo biloba)

RN 15291-75-5 CAPLUS

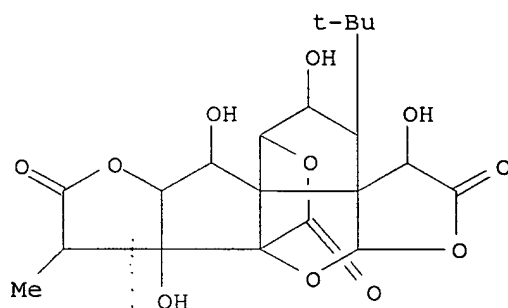
Searched by Barb O'Bryen & Toby Port

CN 9H-1,7a-(Epoxyethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-4,7b-dihydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11aS)- (9CI) (CA INDEX NAME)



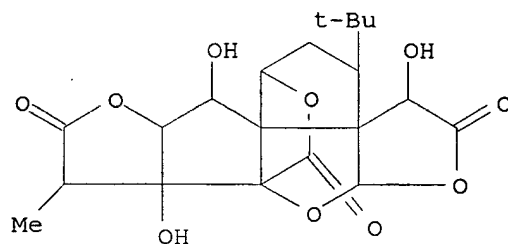
RN 15291-76-6 CAPLUS

CN 9H-1,7a-(Epoxyethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-2,4,7b,11-tetrahydroxy-8-methyl-, (1S,2R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11S,11aR)- (9CI) (CA INDEX NAME)



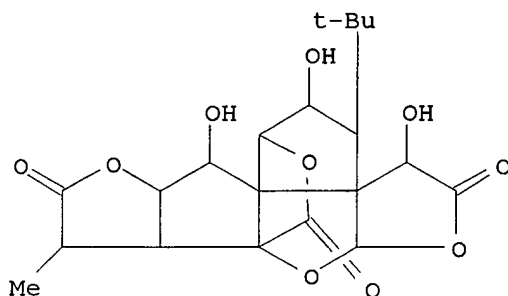
RN 15291-77-7 CAPLUS

CN 9H-1,7a-(Epoxyethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-4,7b,11-trihydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11S,11aR)- (9CI) (CA INDEX NAME)



RN 15291-78-8 CAPLUS

CN 9H-1,7a-(Epoxyethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-2,4,11-trihydroxy-8-methyl-, (1S,2R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11R,11aS)- (9CI) (CA INDEX NAME)



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L17 348 SEA FILE=REGISTRY ABB=ON PLU=ON 5526.1.1/RID
 Searched by Barb O'Bryen & Toby Port

L38 91 SEA FILE=NAPRALERT ABB=ON PLU=ON L17
L39 2185 SEA FILE=NAPRALERT ABB=ON PLU=ON ?ALCOHOL?
L40 1200 SEA FILE=NAPRALERT ABB=ON PLU=ON ?TOBACCO? OR ?CIGAR? OR
?NICOTIN?
L41 55 SEA FILE=NAPRALERT ABB=ON PLU=ON ?ADDICT?
L42 14 SEA FILE=NAPRALERT ABB=ON PLU=ON DRUG (3A) DEPEND?
L43 229 SEA FILE=NAPRALERT ABB=ON PLU=ON ?HEROIN? OR ?COCAINE?
L44 607 SEA FILE=NAPRALERT ABB=ON PLU=ON ?AMPHETAMIN? OR ?BARBITURAT?
OR ?METHEDRIN? OR ?BENZEDRIN? OR ?DEXEDRIN?
L45 1 SEA FILE=NAPRALERT ABB=ON PLU=ON L38 AND ((L39 OR L40 OR L41
OR L42 OR L43 OR L44))

=> d kwic

answer below is a false hit

L45 ANSWER 1 OF 1 NAPRALERT COPYRIGHT (C) 2000 BD. TRUSTEES, U. IL.
ORGN .

ACTIVE

Comment(s): DATA INCOMPLETE - DERIVED FROM AN ABSTRACT.

COMPOUND. Chemical name (CN): GINKGOLIDE B

CAS Registry Number (RN): 15291-77-7

Class identifier (CI): DITERPENE

ORGN Class: GYMNOSPERM Family: GINKGOACEAE Genus: GINKGO Species: BILOBA

Organism part: DRIED LEAF

TYPE OF STUDY (STY): IN VITRO Classification (CC): APOPTOSIS INHIBITION

Extract type: HYDRO-ALCOHOLIC EXT

Dosage Information: CELL CULTURE; CONC USED: 100.0 MG per LITER

Pathological system: NEURON

Qualitative results: ACTIVE

Comment(s): DATA INCOMPLETE. . .

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FILE 'HOME' ENTERED AT 11:20:10 ON 19 OCT 2000